

Title (en)
MICROMACHINED GYROSCOPE INCLUDING A GUIDED MASS SYSTEM

Title (de)
MIKROGEFERTIGTES GYROSKOP MIT EINEM GEFÜHRTEN MASSESYSTEM

Title (fr)
GYROSCOPE MICRO-USINÉ COMPRENANT UN SYSTÈME DE MASSE GUIDÉE

Publication
EP 3184961 A1 20170628 (EN)

Application
EP 17156131 A 20140829

Priority

- US 201314041810 A 20130930
- EP 14182956 A 20140829

Abstract (en)
A gyroscope comprises a substrate and a guided mass system. The guided mass system comprises proof masses and guiding arms disposed in a plane parallel to the substrate. The proof masses are coupled to the guiding arm by springs. The guiding arm is coupled to the substrate by springs. At least one of the proof-masses is directly coupled to the substrate by at least one anchor via a spring system. The gyroscope also comprises an actuator for vibrating one of the proof-masses in the first direction, which causes another proof mass to rotate in the plane. Finally, the gyroscope also includes transducers for sensing motion of the guided mass system in response to angular velocities about a single axis or multiple input axes.

IPC 8 full level
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Citation (applicant)
US 201113235296 A 20110916

Citation (search report)

- [X] US 2013068018 A1 20130321 - SEEGER JOSEPH [US], et al
- [A] US 2013239686 A1 20130919 - CAZZANIGA GABRIELE [IT], et al
- [A] WO 2009130554 A2 20091029 - INVENSENSE [US], et al
- [A] US 2013086985 A1 20130411 - LIN YIZHEN [US]
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Designated contracting state (EPC)
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